

Syllable Standard vector

	[[Stome	jouy v	4 CC 10 -
State number	福音	-1	等年人ク	 [a	n, N)	
1	あA	(а _{1. т}	a 1, 2	ā 1, 3		а і. н)
2	NI	(a _{2.1}	a 2. 2	A 2, 3		a _{2. N})
3	30	(a).1	à ₃, ≀	a 3. 3		аз, м)
4	χE	(a4.1	2 4, 7	a 1, 3	*****	a., ,)
5	\$60	(as, 1	a s, 2	a 5. a	*****	а 5, н)
6	₩KA	(a.,	a 6, 2	26.3	,,,,,	ас. и ј
:	:		:			
10	Z ko	(a10.3	a 10. ż	a 10, 3		а 19, ы)
1 7	ĔSA	(a)1.1	a 11. z	a 11. 1	,	а 11, н)
:	;					
1.6	#TA	(a16,1	a 14, 2	a 1 t. ,	•••••	a 1 5, 4 }
17	#STI	(a17,1	a 17. 2	A 17. 3		a _{17. µ})
	į					
2 1	TENA	(A 21, 1	a 21. z	231.3	******	a 21, u }
22	IZNO	(a22,)	a 22, 2	a 22, 1		2 22, m)
:	:				_	
26	JAHA.	(a 16. 1	ā 26, 2	a 76. 3		2 25. H)
. ;	:		:			
3 7	≢HA	(a)1.1	à 31, 2	a 11, 1		a31. N)
:			:			
3.6	*YA	[as6.1	236.7	A 16. 3	1	азы.м)
3 7	DO	(a)). i	2 31. z	a 47. 3		237, N)
3.8	LYO	(a 3 8, 1	а _{за, 2}	a 18. 1	*****	азы. м)
3 9	<u> 75</u> 84	(ass. 1	217. z	a 39. 3	*****	а;,,м]
			:			
4 4	初四	(a11, 1	9 11. 5	2117	*****	Z 44. H)
4 5	圣VC	(a45.1	2 45, 2	Z 4 5. 3	******	ais.m)
4 6	KM	(a.s. 1	2 46. Z	A . s. 3		2 46. M)
			:			
N	_:	(a N. 1	2 N. 2	Z H. J		a N. H)

AT THE TIME OF SPEAKER ADAPTATION, FEATURE VECTOR [s1, M] GENERATED IN THE FEATURE VECTOR GENERATION SECTION 12

Time.

					
フレーム番号	話者i で生 <i>i</i>	適応の際 成される	に特徴べ 特徴ベク	クトルst トル〔s	E成部 1 2 S I. M]
11	(S1.1	S 1. 2	S 1, 3	*****	S 1. M]
2	(\$ _{2.1}	\$ 2. 2	\$ 2. 3	1,,,,,	S 2, M)
3	[S 3, 1	S 3. 7	S 3, 3	*****	S 3, M)
4	(S4, 1	\$ 4, 2	\$ 4, 3	•••••	S 4, M)
5	(S \$. 1	\$ 5. 2	\$ 5, 3		S 5. M)
6	(S 6. 1	\$ 6, 2	S s. 3		S 6. N)
. 7	(\$7.1	S 7. 2 ·	S 7. 3	1	S 7, N)
8	(s s. 1	S 8, 2	\$ 8, 3	4	S 8, M]
9	(\$ 9, 1	\$ 9. 2	S 9, 3		S 9. M]
1 0	(S10, 1	S 10, 2	S 10, 3		\$ 10, m]
11	[511,1	S 11. 2	\$ 11.3		S 11, M)
1 2	[\$12,1	S 1 2. 2	\$ 12.3		S 12. M]
13	(513,1	S 1 2, 2	S 13, 3	1	\$ 13, M)
1 4	[\$14,1	S 14. 2	S 14, 3		S 14. M]
1 5	(S 15. 1	S 1 5. 2	\$ 15. 5	*****	\$ 15, M)
16.	(\$15,1	S 1 6. 7	S 15, 3		S 16. M)
17	[\$17,1	S 1 7. 2	S 17. 3		S 17, M]
1 8	(\$18.1	\$ 18.2	\$ 18, 3	731111	S 18, M)
19	(S 19, 1	S 19. 2	\$ 19.3	******	\$ 19. M]
2 0	(\$ z o, 1	S 20, 2	\$ 20. 3	,,,,,	S 20. M)
			:		
2 9	[S20, 1	S 29, 2	\$ 29. 3	11111	S 29. M]
3 0	(S 3 0, 1	\$ 30. 2	\$ 30, 3		S 30, M)

Flame number

AT THE TIME OF SPEAKER ADAPTATION, FEATURE VECTOR [ci, M] OUTPUTTED FROM MULTIPLICATIVE NOISE REMOVAL SECTION 9

Time 時間

	TOTAL SECTION 9					
ラレーム番号	話者i からb	箇応の際に 出力される	こ乗送性。	ノイズ隊 クトル I	去部 9 (c 1, u)	
1	(C1, 1	C 1, 2	C 1. 3		С 1. м 3	
2	[C z. 1	C 2, 2	C 2. 3	*****	C 2. M]	
3	(C 3, 1	C 3, 2	С з, з	44477	Сз, м)	
4	(C4, 1	C 4. 2	C 4, 3	******	C4.M)	
5	(C s. 1	C 3, 7	C 5, 3		C 5. M)	
6	(C 5. 1	C 6, 2	C 6, 3	******	С 5, м)	
7	(C7.1	C 7. 2	C 7. 3	*****	C 7. N]	
8	[Cs.,	C a, z	С в, з	1/444	Св. м)	
9	(co.,	Ç 9, 2	С е, з		C 9, M)	
10	(C 10. 1	C 10. 2	C 10. 3	*****	C 10. M)	
1 1	(C11.1	C 11, 2	C 11, 3	*****	C 11, M)	
1 2	(C 12. 1	C 1 z. 2	C 12. 3		C 12. M)	
1 3	(C13.1	C 13. 2	C 13, 3	•••••	C 13, M)	
14	[C14, 1	C 14, 2	C 14, 3	*****	C 14, M]	
15	(C15, 1	C 15, 2	C 15. 3	*****	C 15. M)	
16	(C 1 a. 1	C 15. 2	C 16, 3		C 16. M]	
17	(C 17, 1	C 17, 2	С 17. з	*****	C 17, M]	
18	(C13, 1	C 18, 2	С 18. э	1//14	C 18. M)	
19	(C19.1	C 19, 2	C 19. 3	• • • • • • • • • • • • • • • • • • • •	С 19. м.]	
2 0	(C 20, 1	C 20. 2	C 20, 3		C 70. M)	
:			;			
2 9	[C29.1	C 29. 2	C 29. 3	******	С 29. м.)	
3 0	(C30, 1	C 3 a, 2	C 3 b. 3		C 10. M)	

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Fig.5

	Flame numbe	w	-State number
一)Me 時間	フレーム番号	状態番号	
阿可同	1	1 0	
	2	1 0	1.00
	3	10	1 to KO
•	4	1 0	
-	5	1 0	
•	6	1 0	
•	7	4 6	
	8	4 6	} (1/6) N
ŕ	9	4 6	
	1 0	4 6	
	1 1	2 2	
,	1 2	2 2	\ (1/2) N/2
	1 3	2 2	
	14	2 2	J
	. 15	17	
	1 6	1 7	(\$) 7I
ï	17	17	(6) 12
	1 8	1 7	J
	1 9	4 4	
	2 0	4 4	
	:	:	(*) WA
Ì	2 9	4 4	
	3 0	4 4	,

The state of the s

		ig-6	(
	nber Seature	e 5t	rate number	1
Slame nu	nber (vector	f	Standa	-d
卢	特徴ベントル	找起番号	煙塩ベクトルー	7
	(s i, v)	л	(a,, u)	J
1	(S1.1 " S1.M)	10	[ато.:ато, и]	1}
2	(Sz, t " Sz, H)	10	[ато, т ато, и]	11 10
3	(S 3. 1 S 3, M)	1 0	[a10.1 "a10.4]	\(\psi\) \(\psi\)
4	[S4,: " S4,H]	1 0	(a 10. 1 - ",a 10. 4)	11
5	[\$ 5, 1 ··· \$ 5, M]	10	[a10,1 a10, m]	1
6	(Sa, 1 Sa, H)	1 0	(a 10, 1 " A 10, H]	1
7	(S1.1 " S1.4)	4 6	(a 45, 1 a 46, M)	1
_ 8	(S 8, 1 - S 8, M)	4 6	(a 48, 1 a 46, 4)	
9	(\$ s, 1 " S s, u)	4 6	(a45, 1 a16, N)	\(\delta\)
10	(SID. 1 SIO. M)	46	(a46, 1 a46, M)	
1 1	(\$17,1 ··· \$11. M)	2 2	. (azz. 1 ··· azz. 4)	
12	(S = 2. 1 S 2, M)	2 2	· (azz, 1 ··· azz, 4)	117
1 3	(\$15,1 " 5.2.4)	2 2	(azz. 1 azz. H)	SUES NI
1 4	(S 14, 1 S 14, W)	2 2	(a 22, 1 ··· a 22, H)	[]
15	(S 15. 1 *** S 15. M)	17	[air. 1 air, 4]	
1 6	(S18, 1 S18, W)	17	(a17, 1 212, x)	c+47
1 7	(\$ 17, 1 ··· \$ 17, H)	1 7	(a 17, 1 "a -7, x)	\(\mathbf{z}\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1 8	(s18, 1 S18, M)	1 7	(a17,1 "a:7,4)	
1.9	(\$13,1 ··· \$13,4)	4 4	(244,7 244,4)	1
2 0	(S 10, 1 S 20, M)	44	(a44,1 a44.4)	
:	:	:	<u> </u>	135 WA
2 9	[\$29.1 ··· \$29, H]	4 4	(a.z., mazz, u)	
3 0	(.5 зо. 1 S зо. н)	4 4	(a.i.,a.i., u)	J

F1G.7

,		Querage Featon		ate number Ston	dated vector
		平均特徴ベタトル (s [^] n_u)	状態番号 n	標準ベラトル [an, u]]
average of $i=1$	~6 0平均	(\$^10.1 - \$^10. x)	10	(a10,1 "a10,4)	+ (t) ko
average of i = 7	~100平均	(S 46. 1 "S 44. H)	4 6	(a46,1 "a46.4)	- UST N
averageori=11	~14070	[s 22, 1 s 22, M]	2 2		e (1) M
Average of 1=15	~18 の手均	(S 17, 1 S 17, H)	17		- (\$T-TZ
average of i =19	~30の平均	(s s w)	44		- (36) WA

The stand stands will speed the stand stand stand stand stand stand stands the stands stands stands stands of

F16.8

State number /hb/e

Adaptive vector of acoustic HMM

Adaptive vector of acoustic HMM

after updated.

n	音前	更新後	N 75. ₩ ° *** :	T			
1			ノ史和日)	⇒ H MM	の適応	ベクトフ	ا ا
1	\$	(×1.1	X 1. 2	X 1. 3	*****	X 1. M)
2	XI	[X 2, 1	X 2. 2	X 2, 3	*****	X 2, N)
3	ĎŲ	(X3,1	X 3, 2	X 3. 3	,	Х э. ы)
4	ŹΕ	[X4.1	X 4, 2	X 4, 3		X 4, ы)
5	#50	[X 5, 1	X 5. 2	X s, 1		X 5. W)
6	\$KA	(X 6, 1	X 6. 7	X 6. 3		X 6, M)
	<u></u>		:				
10	ZKO	[X10,1	X 10, 2	X 1 g. 3	*****	Х 1 0, м)
11	Ž A	(x11.1	X 11, 2	X 11, 3	144144	Х 1 1. м)
:	:		:				
16	KTA	(X 15, 1	X 16, 2	X16. 3	*****	X 15. M)
17	BII	(X17.1	X 17, 2	X 175 3		X 17, N)
:	<u></u>		i				
21	#MA	(×21.1	X 2 1. 2	X 21, 3		X 2 1 / M)
2 2	1711	(X 22. 1	X 2 2, 2	× 22. 3		X 2 2. N)
	:						
2 6	JÆHA	(X Z 6. 1	X 26, 2	X 26. 3		X 26, M	5
	´:						
3 1	#/A	(×31.1	X 3 1. 2	X 21. 3		X 3 1. M)
<u> </u>	<u></u>				~~		
3 6	Ϋ́A	[×16.1	× 36. 2	X 26, 3		X 2 d, M]
3 7	198YU	(× 27. 1	X 37. Z	X 37, 3	*****	X37. H)
3 8	£ 10	(X 3 4. 1	X 18. 2	X 24, 3		Хза, и]
3 9	BRA	(×39.1	× 39, 2	X 29. 1	*****	X 3 7. M]
:	:		;				
4 4	が14	(×44, 1	X 44, 2	X 44, 3	*	Х 44, м)
	ZWU.	(X 45. 1	X 45. 2	X 45, 3		X 45, M)
4.6	KIM	(×48, 1	X + 6. Z	X 46, 3	*****	X 46, N)
:	-		:				
N	:	(X N. 1	X N. 2	X 11, 3		Х м. м)

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